

order. Claim 35 defines this feature as follows: "means for ordering models within said ensemble in order of prediction accuracy, with the most accurate model being first in said order." This feature is described at various points in the specification, for example paragraph [0018] describes this feature as follows: "This training orders models within the ensemble in order of prediction accuracy 110 with the most accurate model being first in the order and joins different numbers of models together to form sub-ensembles 112." This is shown in Figure 1.

Another feature of the invention is means for selecting a sub-ensemble of the models that meets a given level of confidence, wherein models are joined together in the sub-ensemble in the order of prediction accuracy. Claim 35 defines this feature as follows: "means for selecting a sub-ensemble of said models that meets a given level of confidence, wherein models are joined together in said sub-ensemble in said order of prediction accuracy." This feature is described at various points in the specification, for example paragraph [0020] describes this feature as follows: "First, the invention selects a sub-ensemble that meets a given level of confidence 116." This is shown in Figure 6.

Another feature of the invention is mean for applying the sub-ensemble, in place of the ensemble, to an example to make a prediction. Claim 35 defines this feature as follows: "means for applying said sub-ensemble, in place of said ensemble, to an example to make a prediction." This feature is described at various points in the specification, for example paragraph [0020] describes this feature as follows: "The invention applies the selected sub-ensemble, in place of the ensemble, to an example to make a prediction 118." This is shown in Figure 6.

## **VI. GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL**

The issues presented for review is whether claims 1-35 are unpatentable under 35 U.S.C. §103(a) by Venkayala, in view of Rosen.

## **VII. ARGUMENT**

### **A. The Rejection Based on Venkayala and Rosen**